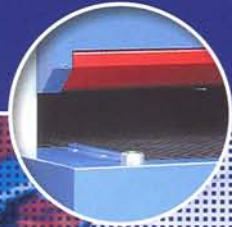


W I D E B E L T S A N D I N G M A C H I N E



ELITE-T



 **BOERE**

ELITE-T

Boere Machinefabriek B.V. is established in Waddinxveen, the Netherlands. The company dates back to 1942 and through the years has specialised in the development and manufacturing of wide belt sanding machines. Besides serial produced machines tailored and customer-oriented solutions to sanding problems and requirements are delivered for many sanding applications. Boere machines are characterised by their sturdiness and reliability. Expertise, flexible thinking and high quality standards lead to a comprehensive sanding program. "Perfection in sanding" - that's the motto.

2



A CUSTOM BUILT MACHINE FOR EVERY BUSINESS

The wide belt sanding machines of the Elite-T range are advanced, top sanding and/or top working machines for sanding, planing or texturing many materials: solid wood, veneers, MDF, chipboard, fibreboard, plywood, cork, plastics. These machines are designed to operate in mainly industrial businesses.

Based on the requirements and wishes of the client, the appropriate machine is constructed to a customised specification. This is made possible through the unique modular machine concept: from 1 to 4 units with various combinations of cutterhead, contact roller, sanding pad and combi unit or structuration brush in working widths ranging from 600 to 1650 mm. Depending on the kind of application the machine is equipped with accessories.

Elite-T wide belt sanding machines are simple to operate, are characterised by their heavy construction and meet the requirements of the European safety standards.



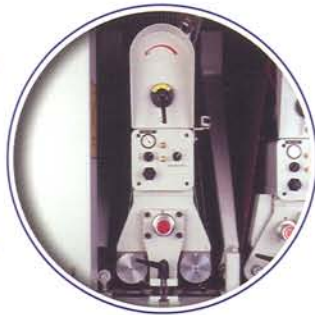
W I D E B E L T S A N D I N G M A C H I N E

These units lay the foundation :



Contact roller (K) :

The contact roller is capable for many purposes. The different rubber hardnesses and/or cutting speeds define the application. Examples: calibrating solid wood with very narrow tolerances, pre-sanding veneered panels, in-between lacquer sanding, stripe-less fine finishing on MDF panels and cross-grain sanding of workpieces such as windows and doors.



Sanding pad (S) :

The sanding pad provides for a perfect finish on workpieces which are to be sanded in the wood fibre direction. The kind of workpiece determines the hardness of the sanding pad. An electronic pneumatic controlled sanding pad prevents damage to the in- and outlet sides of veneered panels. In addition, a segmented sanding pad will perfectly sand uneven panels.



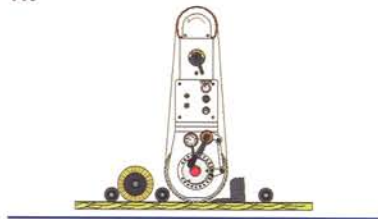
Combi unit (C) :

The combi unit 'combines' the qualities of the contact roller and those of the sanding pad. However, the contact roller and sanding pad can be used separately as well. Combined with other sanding units additional possibilities are created.

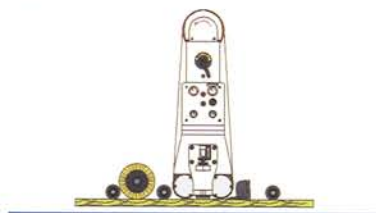
4

Several combinations :

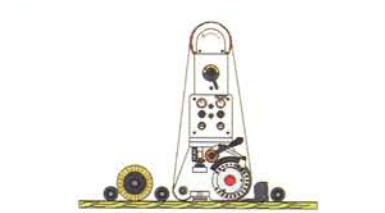
TK



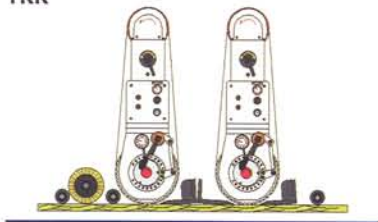
TS



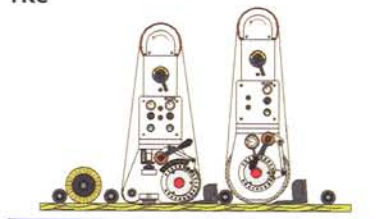
TC



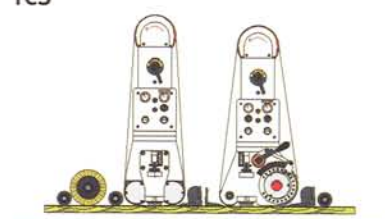
TKK



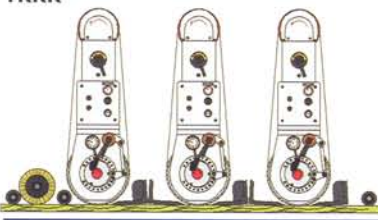
TKC



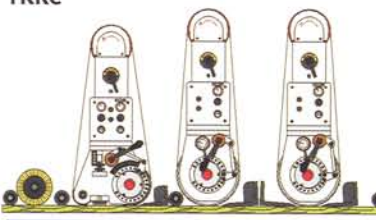
TCS



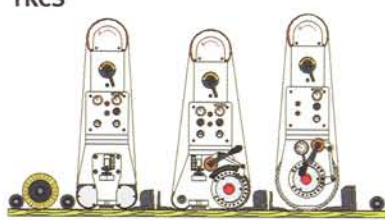
TKKK



TKKC



TKCS





Cutterhead (P) :

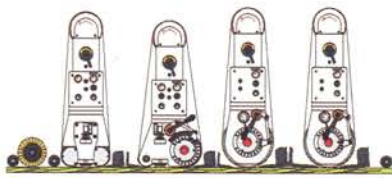
The cutterhead provides for levelling and/or planing to thickness solid wooden panels, especially when more than 1 mm of wood has to be taken off. Thereafter in just one pass the panels can be sanded by means of the sanding units behind.



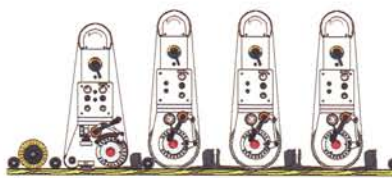
Structuration brush (B) :

The structuration brush is composed of steel wire (Michelin) or nylon abrasive wire with which solid wooden panels are textured. The thickness of the Michelin wire and the grain of the nylon abrasive determine the intensity of texturing.

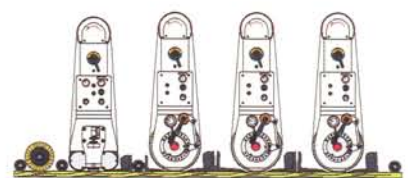
TKKCS



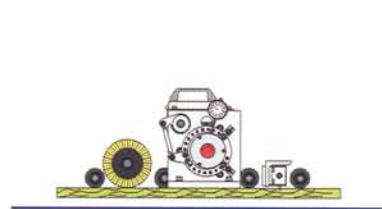
TKKKC



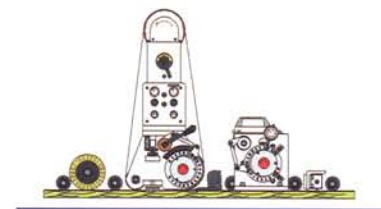
TKKKS



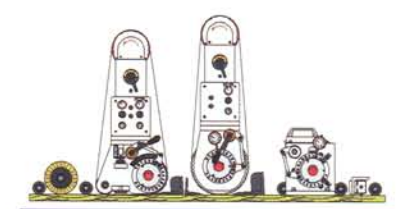
TP



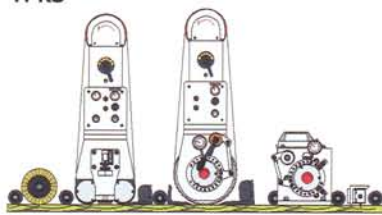
TPC



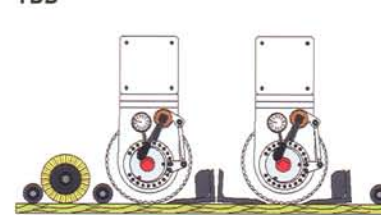
TPKC



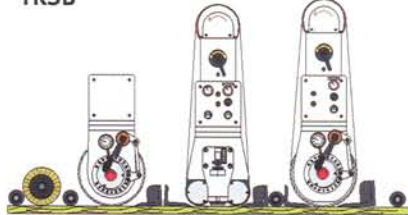
TPKS



TBB



TKSB



ELITE-T

Standard specification :

Convenient control panel :

- Fine adjustment of the 'air cushion' laminated table
- Working hours counter
- Pilot lights compressed air and main current
- Ammeters to indicate the load on the units
- Quick reversal for sanding veneer or solid wood
- Touch screen control (option)
- Emergency stop



Fibre brush unit :

- For cleaning of workpieces after sanding or texturing



Sanding belt :

- "Bo-Track" electronic pneumatic sanding belt oscillation system
- Adjustable pneumatic sanding belt tension
- Electronic protection against running off and damage to the sanding belt



Sanding pad :

- Pneumatic adjustment of the sanding pad pressure
- Simple and quick replacement
- Three different hardnesses



Contact roller :

- Dial gauge for an accurate adjustment
- Automatic brake device on the contact roller and combi unit

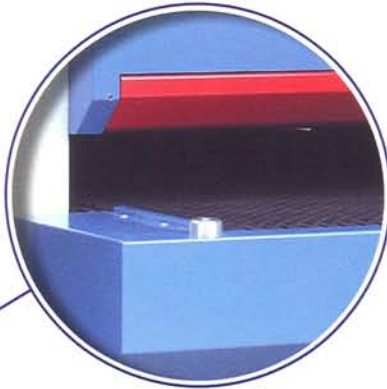


Central exhaust hood



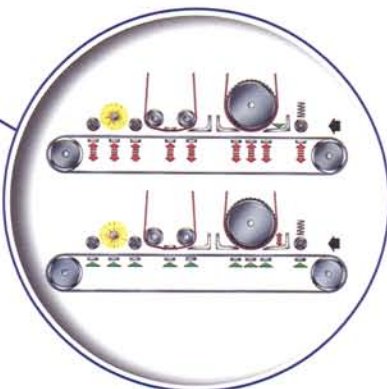
Switch cupboard :

- Lockable main switch
- Automatic thermal overload and short-circuit protection for all motors
- Automatic star delta switch for the main motors
- Pressure control switch switching off the machine if no or insufficient air pressure is available
- Sanding belt motors only start when the sanding belts have been tensioned



Feed table :

- Automatic electronic pneumatic conveyor belt tracking
- Long conveyor belt to facilitate the workpiece in-feed
- Electromotive height adjustment
- Infinitely variable feed speed
- Thickness protection
- Protective finger guard



'Air-cushion' laminated table :

- For a constant sanding pressure when both calibrating and sanding veneered workpieces

CUSTOM-TAILORED ADVICE

Due to the high standard specification, the many combination possibilities of units and the extensive program of accessories the perfect machine is available for almost every application: reason for a custom-tailored advice.

Some important options:



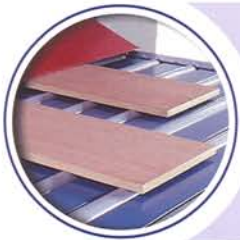
Air jet belt cleaning device :

For cleaning and cooling the sanding belts yielding an important saving in sanding paper.



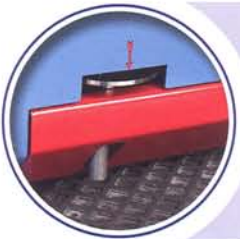
Air jet workpiece cleaning device :

Especially meant for blowing away dust out of grooves and for cleaning plastics.



In- and outfeed roller tables :

Longer and heavier workpieces are better supported and fed flat through the machine. The roller tables are adjusted together with the feed table at the required working height.



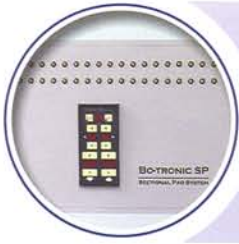
Sensor :

The workpieces are measured after which the feed table is automatically adjusted in height.



Electronic pneumatic controlled sanding pad :

By the up- and downwards movement of the sanding pad at the right time, damage to the in- and outlet sides of veneered workpieces is prevented. Likewise, the life of the sanding pad is prolonged.



Segmented sanding pad :

For sanding veneered workpieces with large thickness differences and irregular shapes. At the infeed side the workpiece is electronically scanned, after which the activated segments of the sanding pad sand the workpiece. In this way a constant stock removal is obtained and sanding through is prevented.



Frequency control for adjustment of the sanding belt and/or feed speed :

By means of the potentiometers and the digital read-out on the control panel the sanding belt and/or feed speed can be easily adjusted.



Vacuum table :

Smooth and/or thin workpieces are guided without slipping through the machine since the holes in the conveyor belt and the connection to a high-pressure blower will suction the workpieces on to the conveyor belt.



Programmable electronic commands :

According to the requirements of the client for example the working height, sanding belt speed, sequence of starting the motors, feed speed, can be adjusted automatically.



Ionisation equipment :

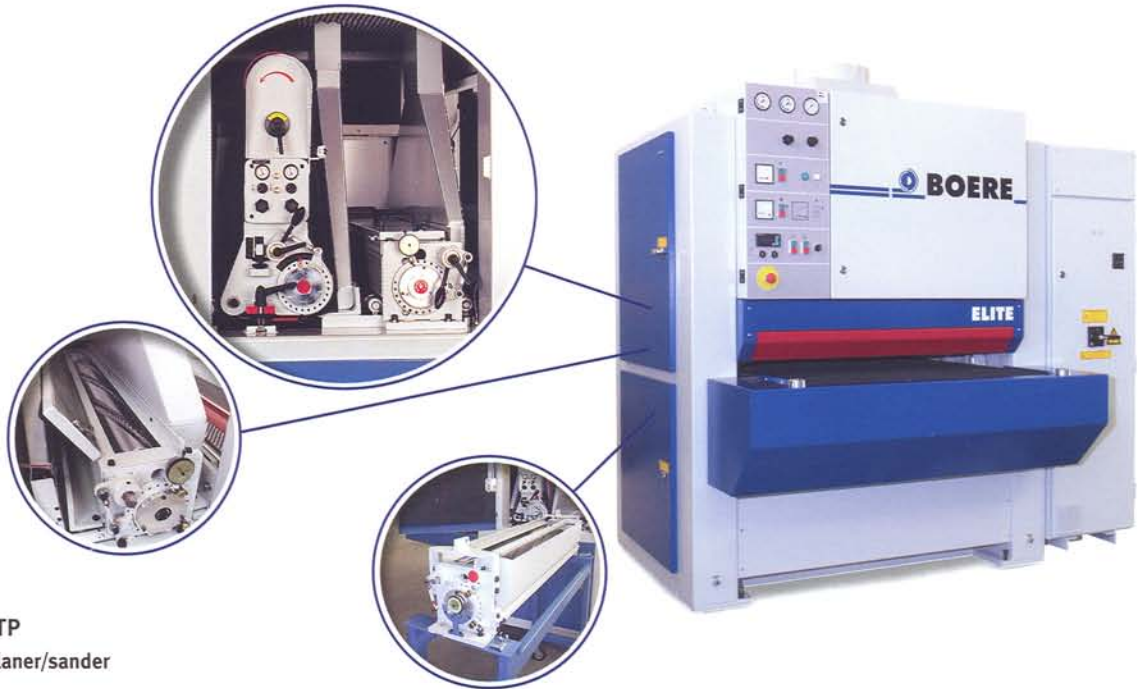
For neutralising electrostatic loaded workpieces and sanding dust.

In-line system :

For a constant working height, in particular important when commissioning the machine in a production line.

ELITE-TP + TB

10



ELITE-TP
Knife planer/sander

If more than 1 mm of solid wood has to be taken off, the knife planer/sander will be put into use. The cutterhead in the planing unit provides for levelling and/or planing to thickness the panels after which they are sanded to the required finish by means of the sanding units. The final finish to be obtained in one pass depends on the number of sanding units behind. In this way the Elite-TP combines two machine functions in just one machine while considerably increasing productivity. Other advantages compared to levelling and/or sanding to thickness through a (coarse) sanding belt are a decrease of energy and sanding paper consumption.



ELITE-TB
Brush texturing machine

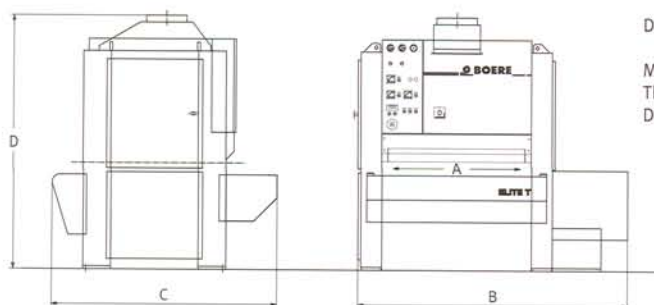
The brush texturing machines of the Elite-TB range are top working machines with which solid wooden panels are textured. Different numbers and types of texturing brushes can be applied in one machine depending on the wood hardness and the final finish to be obtained.

Examples of brushes are :

- Brushes provided with steel wire for texturing of harder woods such as oak.
- Brushes provided with nylon abrasives in different grains for texturing of softer woods and for pre-finishing textured surfaces.

TECHNICAL DATA

Working width	mm		600	900	1100	1300	1650
		Units					
Working height	mm	1,2,3,4	150	150	150	150	150
Sanding belt dimensions	mm	1,2,3,4	610x1900	910x1900	1110x2620	1310x2620	1660x2620
Motor unit	kW	S K C P B	7,5 11 7,5 - 11	11 11 11 15 11	15 18,5 15 18,5 18,5	15 18,5 15 18,5 18,5	22 30 30 22 22
Feed motor	kW	1 2 3 4	0,75 0,75 1,5 2,2	0,75 1,5 1,5 2,2	1,5 1,5 2,2 2,2	1,5 1,5 2,2 2,2	2,2 2,2 3 3
Brush motor	kW	1,2,3,4	0,55	0,55	0,55	0,55	1,1
Height adjustment motor	kW	1,2,3,4	0,25	0,25	0,25	0,25	0,4
Feed speed	m/min	1,2,3,4	5-25	5-25	5-25	5-25	5-25
Air pressure	bar	1,2,3,4	6	6	6	6	6
Compressed air consumption (excl. air jet belt cleaning device)	L/min	1 2 3 4	4 8 12 16	4 8 12 16	4 8 12 16	4 8 12 16	4 8 12 16
Diameter exhaust hood	Ø mm	1 2 3 4	250 350 400 2X 350	250 350 400 2X 350	250 350 400 2X 350	250 350 400 2X 350	300 400 500 2X 400
Weight	kg	1 2 3 4	1800 2200 2600 3500	2200 2800 3400 4300	2600 3400 4100 5100	2800 3700 4500 5400	3500 4400 5300 6200
Dimension A	mm	1, 2, 3, 4	600	900	1100	1300	1650
Dimension B	mm	1, 2, 3, 4	1825	2125	2325	2525	2525
Dimension C	mm	1 2 3 4	1560 1950 2470 2965	1560 1950 2470 2965	1560 1950 2470 2965	1560 1950 2470 2965	1560 1950 2470 2965
Dimension D	mm	1 2 3 4	2135 2205 2245 2195	2135 2205 2245 2195	2495 2565 2605 2195	2495 2565 2605 2195	2495 2565 2605 2555



Divergent machine executions on request.

Measurements, weights and construction changes are subject to reserve.
The wide belt sanding machines comply with the regulations of the Machinery Directive.



 **BOERE**

Boere Machinefabriek BV
Brugweg 121, 2741 LA
P.O. Box 8, 2740 AA
Waddinxveen, Nederland

T +31(0)182.614400
F +31(0)182.618349
E info@boere.nl
I www.boere.com / www.boere.nl